



## SAFETY DATA SHEET South America GHS Format

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### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**Trademark:** XENYOY™  
**Product Code:** X5100 - 7001

**Product Description:** Blend Polycarbonate [CASRN 25971-63-5] / Polybutyleneterephthalate [CASRN 30965-26-5]  
**Product Type:** Commercial Product  
**Recommended use:** May be used to produce molded or extruded articles or as a component of other industrial products.

**Manufacturer:** SABIC Innovative Plastics South America Industry and Trade of Plastics LTDA  
Manoel Thomaz Street, 545.  
13067-230 Campinas SP  
Brazil

**Emergency Telephone Number:** Japan: +(81)-3-3593-4735  
China: +86 532 83889090, +86 20 84980148  
Korea: +(82)-2-510-6546  
Singapore: +(65)-6210 4199  
Thailand: +(66)-22312323-4 ext. 46, +(66)-38927000 ext. 7026  
India: +(91)-265 3068554  
Australia: +61 (0)3 9566 3000

**Emergency Transportation/CHEMTREC (24 HOUR):** 800 424-9300 (USA)  
+1 703-527-3887 (globally, outside USA)

**E-mail:** [webinquiries@sabic.com](mailto:webinquiries@sabic.com)  
**Website Address:** [www.sabic.com](http://www.sabic.com)





## 5. FIRE-FIGHTING MEASURES

<b>Autoignition Temperature:</b>	360°C (680°F) estimated
<b>Explosive Limits</b>	
<b>upper:</b>	Not determined
<b>lower:</b>	Not determined
<b>Suitable Extinguishing Media:</b>	Use dry chemical, CO2, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.)
<b>Unsuitable Extinguishing Media for Safety Reasons:</b>	Do not use a solid water stream as it may scatter and spread fire
<b>Hazardous Decomposition Products:</b>	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbons fragments.
<b>Hazards from Combustion Products:</b>	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.
<b>Specific Hazards:</b>	Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Clean up:</b>	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.
<b>Personal Precautions:</b>	See section 8.
<b>Environmental Precautions:</b>	Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed.
<b>Storage:</b>	Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:**

No components with information, unless noted below

Chemical Name	Brazil NR15	Argentina Annex III	ACGIH	US OSHA PEL (8 Hr)	SABIC Recommend (8 Hr)*
Tetrahydrofuran 109-99-9	No Information	No Information	STEL: 100 ppm ; TWA: 50 ppm ; Notations: Confirmed Animal Carcinogen with Unknown Relevance to Humans , Skin ; Crit Eff: CNS impairment , Kidney damage , Upper respiratory tract irritation	FRL_STEL: 735 mg/m <sup>3</sup> , 250 ppm ; FRL_TWA: 590 mg/m <sup>3</sup> , 200 ppm ; TL_PEL: 590 mg/m <sup>3</sup> , 200 ppm	50 ppm TWA

\*SABIC Recommended Exposure Limits have been established for certain chemicals.

**Engineering Measures to Reduce Exposure:**

Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation at machinery. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection. Polybutyleneterephthalate fumes and condensates may contain trace quantities of tetrahydrofuran (typically less than 1 ppm, see section 2, 3 and 11).

**Hand Protection:**

Protective gloves should be worn.

**Eye Protection:**

Safety glasses with side-shields or chemical goggles. In addition, use full-face shield when cleaning processing vapor condensates from hood, ducts, and other surfaces.

**Respiratory Protection:**

When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

**Body Protection:**

Long sleeved clothing.

**Hygiene Measures:**

When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Pellets
<b>Color:</b>	Same as color code
<b>Odor:</b>	None or slight
 <b>Melting point/range:</b>	 This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
<b>Autoignition Temperature:</b>	360°C (680°F) estimated
<b>Vapor Pressure:</b>	Negligible
 <b>Water Solubility:</b>	 Insoluble
<b>Evaporation Rate:</b>	Negligible
 <b>Specific gravity:</b>	 >1; (water = 1)
 <b>Explosive Limits</b>	
<b>upper:</b>	Not determined
<b>lower:</b>	Not determined
 <b>VOC content (%):</b>	 Negligible

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ambient conditions. Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Avoid temperatures above 360 °C. To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended periods of time.
<b>Hazardous Decomposition Products:</b>	Process vapors under recommended processing conditions may include trace levels of hydrocarbons, tetrahydrofuran (THF), aliphatic aldehydes, phenols, alkylphenols, diarylcarbonates.

## 11. TOXICOLOGICAL INFORMATION

<b>LD50/oral/rat:</b>	>5000 mg/kg
<b>LD50/dermal/rabbit:</b>	>2000 mg/kg
<b>Subchronic Toxicity:</b>	No information available
<b>Primary Irritation:</b>	Substance does not generally irritate and is only mildly irritating to the skin
<b>IARC:</b>	Not listed
<b>OSHA:</b>	Not regulated
<b>NTP:</b>	Tetrahydrofuran: In 2-year carcinogenicity bioassays conducted by the National Toxicology Program (NTP), mice and rats (50/sex/group) were exposed to concentrations of 0, 200, 600, or 1,800 ppm via inhalation 6 hours/day, 5 days/week for 104 weeks. Under the conditions of these 2-year inhalation studies, there was some evidence of carcinogenic activity of tetrahydrofuran in male F344/N rats based on increased incidences of renal tubule adenoma or carcinoma (combined) at 600 and 1,800 ppm. There was no evidence of carcinogenic activity of tetrahydrofuran in female F344/N rats exposed to 200, 600, or 1,800 ppm or male B6C3F1 mice exposed to 200, 600, or 1,800 ppm. There was clear evidence of carcinogenic activity of tetrahydrofuran in female B6C3F1 mice based on increased incidences of hepatocellular neoplasms observed at 1,800 ppm.
<b>Remarks:</b>	The toxicological data has been taken from products of similar composition
<b>Special Studies:</b>	PROCESSING FUMES: Processing fumes evolved at recommended processing conditions may contain trace amounts of tetrahydrofuran (typically less than 1 ppm). Extreme processing conditions or temperatures may result in higher levels. See section 8 for appropriate exposure controls and personal protection. In 2-year carcinogenicity bioassays conducted by the National Toxicology Program (NTP), mice and rats (50/sex/group) were exposed to tetrahydrofuran at concentrations of 0, 200, 600, or 1,800 ppm via inhalation 6 hours/day, 5 days/week for 104 weeks. Under the conditions of these 2-year inhalation studies, there was some evidence of carcinogenic activity of tetrahydrofuran in male F344/N rats based on increased incidences of renal tubule adenoma or carcinoma (combined) at 600 and 1,800 ppm. There was no evidence of carcinogenic activity of tetrahydrofuran in female F344/N rats exposed to 200, 600, or 1,800 ppm or male B6C3F1 mice exposed to 200, 600, or 1,800 ppm. There was clear evidence of carcinogenic activity of tetrahydrofuran in female B6C3F1 mice based on increased incidences of hepatocellular neoplasms observed at 1,800 ppm.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity Effects:</b>	Do not flush into surface water or sanitary sewer system.
<b>Other information:</b>	Ecological damages are not known or expected under normal use.
<b>Ecotoxicity - Invertebrate Data:</b>	Ecological damages are not known or expected under normal use.

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Where possible recycling is preferred to disposal or incineration.  
Descartar em conformidade con as legislação locais.

**EWC waste disposal no:**

702 - waste from the manufacture, formulation, supply and use of plastics, synthetic rubber and man-made fibres.

### 14. TRANSPORT INFORMATION

**Transport Classification:**

Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

## 15. REGULATORY INFORMATION

This substance is classified and labelled according to Annex I of Directive 67/548/EEC, as amended.

### International Inventories:

<b>TSCA (USA):</b>	Listed
<b>DSL (Canada):</b>	Listed
<b>EINECS/ELINCS (Europe):</b>	Listed
<b>ENCS (Japan):</b>	Listed
<b>IECSC (China):</b>	Listed
<b>KECL (Korea):</b>	Listed
<b>PICCS (Philippines):</b>	Listed
<b>AICS (Australia):</b>	Listed
<b>NZIoC (New Zealand):</b>	Listed
<b>REACH Information:</b>	For this product's REACH related information, please contact <a href="mailto:webinquiries@sabic.com">webinquiries@sabic.com</a>

### Other Inventory Information:

A "Listed" entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A "Not listed" entry above indicates one or more components is restricted from import or manufacture into that country/region. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

### SVHC (REACH Regulation (EC) No 1907/2006 and 453/2010, as amended):

This product does not intentionally contain SVHC chemicals except as noted below. Incidental amounts of impurities, if present, would be below the threshold limit of 0.1% by weight.

### California Proposition 65:

Components in this product known to the State of California to cause cancer and/or reproductive effects, are listed below:

Chemical Name	Weight %	California Proposition 65:
4,4'-isopropylidenediphenol (bisphenol A) 80-05-7	≤100 ppm	Listed: May 11, 2015 Type of Toxicity: Female
4-Vinylcyclohexene 100-40-3	≤10 ppm	Listed: May 1, 1996 Carcinogenic.
Methylene chloride 75-09-2	≤10 ppm	Type of Toxicity: cancer
Carbon black 1333-86-4	≤10 ppm	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)
Butadiene 106-99-0	≤10 ppm	Type of Toxicity: cancer ; Type of Reproductive Toxicity: developmental, female, male

### RoHS EU Directive 2011/65/EU:

The subject product is in compliance with EU RoHS Directive 2011/65/EU. All below chemicals are not employed in the manufacture of the product: a.Cadmium and its compounds, b.Lead and its compounds, c.Mercury and its compounds, d.Hexavalent chromium compounds, e.Polybrominated biphenyls (PBBs), f.Polybrominated diphenyl ethers (PBDEs including Deca-BDE). The trace levels of heavy metals may be present as impurities within threshold limits (<0.1% for Pb, Hg, Cr VI, and <0.01% for Cd). We are disclosing this information, to the best of our knowledge, based upon data from our raw material manufacturers.

### HMIS Rating

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer in contact with skin

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<http://eur.sabic-ip.com/ordeur/pages/msds/MSDSSearch.jsp?app=sabic-ip>

### SDS Scope:

Brazil: Conforms to ABNT Standard NBR 14725-4:2012  
Argentina: Conforms to IRAM 41400  
This document is also applicable in other countries and regions.

**Prepared by:** Product Stewardship & Toxicology

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**End of Safety Data Sheet**